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#include <iostream>

using namespace std;

int main() {

int a = 3; // 101

int b = 4; // 011

// Bitwise AND

int bitwise\_and = a & b;

int bitwise\_or = a | b;

int bitwise\_xor = a^b;

int bitwise\_not = -a;

int left\_shift = a<<2;

int right\_shift = a>>2;

cout << " AND: " << bitwise\_and << endl;

cout<< "OR :"<<bitwise\_or<<endl;

cout<<"XOR :"<<bitwise\_xor<<endl;

cout<<"NOT :"<<bitwise\_not<<endl;

cout<<"left shift :"<<left\_shift<<endl;

cout<<"right shift :"<<right\_shift<<endl;

return 0;

}

OUTPUT

AND: 0

OR :7

XOR :7

NOT :-3

left shift :12

right shift :0

=== Code Execution Successful ===

BITWISE

#include<iostream>

using namespace std;

int main()

{

int bit\_to\_be\_set, i=5;

int bit\_to\_be\_reset;

int set, reset;

cout<<"Enter the bit to be changed: "<<endl;

cin>>bit\_to\_be\_reset;

set = i|(1<<bit\_to\_be\_reset);

// reset = i&(~(1<<bit\_to\_be\_reset));

cout<<"Set: "<<set<<endl;

}

OUTPUT

Enter the bit to be changed:

5

Set: 37

=== Code Execution Successful ===